

**EXHIBIT 'B' - PENDING CLAIMS**

1           21.     A method for including Frame Time Indication for cell searching in a wireless  
2 communications system, said method comprising:

3                     transmitting by a mobile station, in each slot of a frame a primary synchronization  
4 code and a secondary synchronization code, said secondary synchronization code comprising  
5  $\text{Log } 2(N_{\text{ssc}})$  bits of information to be used for a long code indication; and

6                     modulating said secondary synchronization code by one of  $N_{\text{mod}}$  valid  
7 sequences.

1           22.     The method of claim 21, wherein said primary synchronization code and said  
2 secondary synchronization code are transmitted at substantially the same time.

1           23.     The method of claim 21, wherein said  $N_{\text{mod}}$  value is greater than one.

1           24.     The method of claim 21, wherein following properties need to be satisfied if said  
2  $N_{\text{mod}}$  value is greater than one:

3                     each said secondary synchronization code has sufficient cross-correlation  
4 properties; and

5                     no cyclic shift of a valid modulating sequence can result in another valid  
6 modulating sequence.

1           25.     The method of claim 21, wherein said secondary synchronization codes are the  
2     same in each slot.

1           26.     The method of claim 21, wherein said wireless communication system is a  
2     WCDMA communication system.

1           27.     (Amended) A method for including Frame Timing Indication for cell searching by  
2     a mobile station, said method comprising:

3                 transmitting, by a mobile station, in each frame, a sequence of about 16 secondary  
4     synchronization codes, said secondary synchronization codes comprising  $\text{Log}_2(N_{\text{ssc\_seq}})$  bits  
5     of information to be used to obtain a long code indication; and

6                 modulating said secondary synchronization code by one of  $N_{\text{mod}}$  valid  
7     sequences.

1           28.     (Amended) The method of claim 27, wherein said sequence of about 16  
2     secondary synchronization codes repeats in each frame.

1           29.     The method of claim 27, wherein each said secondary synchronization code is  
2     unique.

1           30.     The method of claim 27, wherein each said secondary synchronization code is  
2     unique and further has auto correlation and cross correlation properties.

1           31.    The method of claim 27, further comprising:  
2                   finding a valid secondary synchronization code sequence; and  
3                   determining a frame timing indication based on said valid secondary  
4 synchronization code.

1           32.    The method of claim 27, wherein said long code indication can have 65,536  
2 different values.

1           33.    A method for facilitating cell searches in a cellular communications system,  
2 comprising the step of:  
3                   a base station transmitting at least one code word included in an identifying code  
4 set, said identifying code set comprising a plurality of code words each including a plurality of  
5 symbols taken from a set of short codes, each code word of said plurality of code words defined  
6 such that no symbol-wise cyclic shift of said each code word produces a valid code word.

1           34.    The method of Claim 33, wherein said plurality of code words comprises a  
2 plurality of Q-ary code words, and said set of short codes comprises a set of Q short codes.

1           35.    The method of Claim 34, wherein said plurality of Q-ary code words  
2 comprises a plurality of length M Q-ary code symbols.

1           36.    The method of Claim 33, wherein said identifying code is formed by  
2 concatenating an inner and outer code.

1           37.    The method of Claim 36, wherein said inner code comprises a tailbiting trellis  
2 code.

1           38.    The method of Claim 36, wherein said outer code comprises a binary code.

1           39.    The method of Claim 37, wherein said tailbiting trellis code comprises an  
2 orthogonal trellis code.

1           40.    The method of Claim 37, wherein said tailbiting trellis code comprises a  
2 superorthogonal trellis code.

1           41.    The method of Claim 34, wherein the short codes within the set of Q short codes  
2 are orthogonal short codes.

1           42.    A method for a mobile station to decode an identifying code transmitted from a  
2 base station in a CDMA cellular communications system, comprising the steps of:

3               collecting k times M consecutive symbols, said M consecutive symbols  
4 comprising said identifying code;

5                   calculating a combined likelihood value for said collected k times M consecutive  
6 symbols, thereby producing a set of M consecutive symbols;  
7                   computing a correlation between each of L code words and each of M cyclic  
8 shifts of said set of M combined likelihood values; and  
9                   storing a code word and number of cyclical shifts made that produced a highest  
10 amount of correlation in the computing step.

1           43.    The method of Claim 42, wherein said number of cyclical shifts made indicate a  
2 frame timing for said identifying code.

1           44.    The method of Claim 42, further comprising the step of outputting an identity of  
2 said stored code word.

1           45.    A method for a mobile station to decode an identifying code transmitted from a  
2 base station in a CDMA cellular communications system, comprising the steps of:

3                   collecting k times M consecutive symbols, said M consecutive symbols  
4 comprising said identifying code;

5                   calculating a combined likelihood value for said collected k times M consecutive  
6 symbols, thereby producing a set of M consecutive symbols;

7                   computing a correlation between said set of M combined likelihood values and  
8 each of M cyclic shifts of said L code words; and

9 storing a code word and number of cyclical shifts made that produced a highest  
10 amount of correlation in the computing step.

1 46. The method of Claim 45, wherein said number of cyclical shifts made indicate a  
2 frame timing for said identifying code.

1 47. The method of Claim 45, further comprising the step of outputting an identity of said  
2 stored code word. --